

09/732740

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DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR

<u>L11</u>	(L10 same l2 same l3) and l4 and l5	18	<u>L11</u>
<u>L10</u>	L9 or l8	8729	<u>L10</u>
<u>L9</u>	magnesium adj metal	3372	<u>L9</u>
<u>L8</u>	metal adj magnesium	5937	<u>L8</u>
<u>L7</u>	(l1 same l2 same l3) and l4 and l5	74	<u>L7</u>
<u>L6</u>	particle adj size adj distribution adj index	67	<u>L6</u>
<u>L5</u>	particle adj size adj distribution	34597	<u>L5</u>
<u>L4</u>	temperature	2818741	<u>L4</u>
<u>L3</u>	halogen adj containing	21063	<u>L3</u>
<u>L2</u>	alcohol	625524	<u>L2</u>
<u>L1</u>	magnesium	332627	<u>L1</u>

END OF SEARCH HISTORY

WEST

Generate Collection

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Search Results - Record(s) 1 through 18 of 18 returned.☐ 1. Document ID: US 20010012908 A1

L11: Entry 1 of 18

File: PGPB

Aug 9, 2001

PGPUB-DOCUMENT-NUMBER: 20010012908

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010012908 A1

TITLE: Magnesium compound, olefin polymerization catalyst, and method for producing olefin polymer

PUBLICATION-DATE: August 9, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Tanase, Shohjiroh	Ichihara-shi		JP	
Tsuda, Takehiro	Ichihara-shi		JP	
Ota, Tsuyoshi	Ichihara-shi		JP	
Funabashi, Hideo	Ichihara-shi		JP	

US-CL-CURRENT: 568/851; 526/210

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KIMC

☐ 2. Document ID: US 6228791 B1

L11: Entry 2 of 18

File: USPT

May 8, 2001

US-PAT-NO: 6228791

DOCUMENT-IDENTIFIER: US 6228791 B1

TITLE: Solid catalyst component and catalyst for olefin polymerization

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KIMC

☐ 3. Document ID: US 6200921 B1

L11: Entry 3 of 18

File: USPT

Mar 13, 2001

US-PAT-NO: 6200921

DOCUMENT-IDENTIFIER: US 6200921 B1

TITLE: Solid catalyst component for olefin polymerization and catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KVMC

☐ 4. Document ID: US 5324805 A

L11: Entry 4 of 18

File: USPT

Jun 28, 1994

US-PAT-NO: 5324805

DOCUMENT-IDENTIFIER: US 5324805 A

TITLE: Ethylene/pentene-1 copolymer and ethylene/pentene-1 copolymer composition

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KVMC

☐ 5. Document ID: US 5262228 A

L11: Entry 5 of 18

File: USPT

Nov 16, 1993

US-PAT-NO: 5262228

DOCUMENT-IDENTIFIER: US 5262228 A

TITLE: Ethylene/pentene-1 copolymer compositions and their use

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KVMC

☐ 6. Document ID: US 5260382 A

L11: Entry 6 of 18

File: USPT

Nov 9, 1993

US-PAT-NO: 5260382

DOCUMENT-IDENTIFIER: US 5260382 A

TITLE: Ethylene/pentene-1 copolymer compositions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KVMC

☐ 7. Document ID: US 5061667 A

L11: Entry 7 of 18

File: USPT

Oct 29, 1991

US-PAT-NO: 5061667

DOCUMENT-IDENTIFIER: US 5061667 A

TITLE: Catalytic component for olefin polymerization

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 8. Document ID: US 4960743 A

L11: Entry 8 of 18

File: USPT

Oct 2, 1990

US-PAT-NO: 4960743

DOCUMENT-IDENTIFIER: US 4960743 A

TITLE: Method for production of catalyst carrier for polymerization of olefin

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 9. Document ID: US 4952649 A

L11: Entry 9 of 18

File: USPT

Aug 28, 1990

US-PAT-NO: 4952649

DOCUMENT-IDENTIFIER: US 4952649 A

TITLE: Process for producing olefin polymers or copolymers and catalyst components used therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 10. Document ID: US 4950630 A

L11: Entry 10 of 18

File: USPT

Aug 21, 1990

US-PAT-NO: 4950630

DOCUMENT-IDENTIFIER: US 4950630 A

TITLE: Method for production of catalyst component for olefin polymerization

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 11. Document ID: US 4820672 A

L11: Entry 11 of 18

File: USPT

Apr 11, 1989

US-PAT-NO: 4820672

DOCUMENT-IDENTIFIER: US 4820672 A

TITLE: Hydrocarbon soluble and insoluble organo magnesium chloride complexes, processes and uses

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 12. Document ID: US 4814313 A

L11: Entry 12 of 18

File: USPT

Mar 21, 1989

US-PAT-NO: 4814313

DOCUMENT-IDENTIFIER: US 4814313 A

TITLE: Method of production of catalyst carrier for polymerization of olefin

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 13. Document ID: US 4814312 A

L11: Entry 13 of 18

File: USPT

Mar 21, 1989

US-PAT-NO: 4814312

DOCUMENT-IDENTIFIER: US 4814312 A

TITLE: Method for production of catalyst component for olefin polymerization

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 14. Document ID: US 4814311 A

L11: Entry 14 of 18

File: USPT

Mar 21, 1989

US-PAT-NO: 4814311

DOCUMENT-IDENTIFIER: US 4814311 A

TITLE: Method for production of catalyst component for olefin polymerization (P-1292)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 15. Document ID: US 4742139 A

L11: Entry 15 of 18

File: USPT

May 3, 1988

US-PAT-NO: 4742139

DOCUMENT-IDENTIFIER: US 4742139 A

TITLE: Process for producing olefin polymers or copolymers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 16. Document ID: US 4673719 A

L11: Entry 16 of 18

File: USPT

Jun 16, 1987

US-PAT-NO: 4673719

DOCUMENT-IDENTIFIER: US 4673719 A

TITLE: Process for producing olefin polymers and catalyst composition therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 17. Document ID: US 4401589 A

L11: Entry 17 of 18

File: USPT

Aug 30, 1983

US-PAT-NO: 4401589

DOCUMENT-IDENTIFIER: US 4401589 A

TITLE: Process for producing olefin polymers or copolymers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 18. Document ID: US 4330649 A

L11: Entry 18 of 18

File: USPT

May 18, 1982

US-PAT-NO: 4330649

DOCUMENT-IDENTIFIER: US 4330649 A

TITLE: Process for producing olefin polymers or copolymers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw	Desc	Image								

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Terms	Documents
(L10 same l2 same l3) and l4 and l5	18

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Terms	Documents
(11 same 12 same 13) and 14 and 15	74

Database:

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 IBM Technical Disclosure Bulletins

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L7

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DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR

<u>L7</u>	(11 same 12 same 13) and 14 and 15	74	<u>L7</u>
<u>L6</u>	particle adj size adj distribution adj index	67	<u>L6</u>
<u>L5</u>	particle adj size adj distribution	34597	<u>L5</u>
<u>L4</u>	temperature	2818741	<u>L4</u>
<u>L3</u>	halogen adj containing	21063	<u>L3</u>
<u>L2</u>	alcohol	625524	<u>L2</u>
<u>L1</u>	magnesium	332627	<u>L1</u>

END OF SEARCH HISTORY

WEST

Generate Collection

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Search Results - Record(s) 1 through 74 of 74 returned.☐ 1. Document ID: US 20020082160 A1

L7: Entry 1 of 74

File: PGPB

Jun 27, 2002

PGPUB-DOCUMENT-NUMBER: 20020082160

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020082160 A1

TITLE: Solid titanium catalyst component, ethylene polymerization catalyst containing the same, and ethylene polymerization process

PUBLICATION-DATE: June 27, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Yashiki, Tsuneo	Waki-cho		JP	
Minami, Shuji	Waki-cho		JP	

US-CL-CURRENT: 502/125; 502/134, 526/124.6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Drawn Desc	Image										

☐ 2. Document ID: US 20020028893 A1

L7: Entry 2 of 74

File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020028893

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020028893 A1

TITLE: (Cycloalkyl) methyl silanes as external donors for polyolefin catalysts

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cheng, Chung-Ping	League City	TX	US	
Spencer, Michael D.	Houston	TX	US	

US-CL-CURRENT: 526/125.3; 502/103, 502/125, 526/128

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw Desc	Image										

☐ 3. Document ID: US 20010012908 A1

L7: Entry 3 of 74

File: PGPB

Aug 9, 2001

PGPUB-DOCUMENT-NUMBER: 20010012908

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010012908 A1

TITLE: Magnesium compound, olefin polymerization catalyst, and
method for producing olefin polymer

PUBLICATION-DATE: August 9, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Tanase, Shohjiroh	Ichihara-shi		JP	
Tsuda, Takehiro	Ichihara-shi		JP	
Ota, Tsuyoshi	Ichihara-shi		JP	
Funabashi, Hideo	Ichihara-shi		JP	

US-CL-CURRENT: 568/851; 526/210

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 4. Document ID: US 6469112 B2

L7: Entry 4 of 74

File: USPT

Oct 22, 2002

US-PAT-NO: 6469112

DOCUMENT-IDENTIFIER: US 6469112 B2

TITLE: (Cycloalkyl)methyl silanes as external donors for polyolefin
catalysts

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 5. Document ID: US 6306945 B1

L7: Entry 5 of 74

File: USPT

Oct 23, 2001

US-PAT-NO: 6306945

DOCUMENT-IDENTIFIER: US 6306945 B1

TITLE: Halogen containing polymer compounds containing modified zeolite stabilizers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 6. Document ID: US 6291385 B1

L7: Entry 6 of 74

File: USPT

Sep 18, 2001

US-PAT-NO: 6291385

DOCUMENT-IDENTIFIER: US 6291385 B1

TITLE: Catalyst for polymerization or copolymerization of olefin

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 7. Document ID: US 6268443 B1

L7: Entry 7 of 74

File: USPT

Jul 31, 2001

US-PAT-NO: 6268443

DOCUMENT-IDENTIFIER: US 6268443 B1

TITLE: Process for producing a solid catalyst component for olefin polymerization and a process for producing an olefin polymer

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 8. Document ID: US 6228791 B1

L7: Entry 8 of 74

File: USPT

May 8, 2001

US-PAT-NO: 6228791

DOCUMENT-IDENTIFIER: US 6228791 B1

TITLE: Solid catalyst component and catalyst for olefin polymerization

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 9. Document ID: US 6221803 B1

L7: Entry 9 of 74

File: USPT

Apr 24, 2001

US-PAT-NO: 6221803
DOCUMENT-IDENTIFIER: US 6221803 B1

TITLE: Catalyst and process for its preparation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 10. Document ID: US 6200921 B1

L7: Entry 10 of 74

File: USPT

Mar 13, 2001

US-PAT-NO: 6200921
DOCUMENT-IDENTIFIER: US 6200921 B1

TITLE: Solid catalyst component for olefin polymerization and catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 11. Document ID: US 6080828 A

L7: Entry 11 of 74

File: USPT

Jun 27, 2000

US-PAT-NO: 6080828
DOCUMENT-IDENTIFIER: US 6080828 A

TITLE: Polymerization catalyst and process for preparing an ethylene polymer

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 12. Document ID: US 6020279 A

L7: Entry 12 of 74

File: USPT

Feb 1, 2000

US-PAT-NO: 6020279
DOCUMENT-IDENTIFIER: US 6020279 A

TITLE: Process for producing a solid catalyst component for olefin polymerization and a process for producing an olefin polymer

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 13. Document ID: US 5962615 A

L7: Entry 13 of 74

File: USPT

Oct 5, 1999

US-PAT-NO: 5962615

DOCUMENT-IDENTIFIER: US 5962615 A

TITLE: Ethylene polymer

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 14. Document ID: US 5859143 A

L7: Entry 14 of 74

File: USPT

Jan 12, 1999

US-PAT-NO: 5859143

DOCUMENT-IDENTIFIER: US 5859143 A

TITLE: Process for continuously producing propylene-based block copolymer

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 15. Document ID: US 5767034 A

L7: Entry 15 of 74

File: USPT

Jun 16, 1998

US-PAT-NO: 5767034

DOCUMENT-IDENTIFIER: US 5767034 A

TITLE: Olefin polymerization catalyst with additive comprising aluminum-silicon composition, calixarene derivatives or cyclodextrin derivatives

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 16. Document ID: US 5623033 A

L7: Entry 16 of 74

File: USPT

Apr 22, 1997

US-PAT-NO: 5623033

DOCUMENT-IDENTIFIER: US 5623033 A

TITLE: Titanium catalyst component for ethylene polymerization, ethylene polymerization catalyst, and process for ethylene polymerization using the same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KIMC

☐ 17. Document ID: US 5556820 A

L7: Entry 17 of 74

File: USPT

Sep 17, 1996

US-PAT-NO: 5556820

DOCUMENT-IDENTIFIER: US 5556820 A

TITLE: Catalyst component for olefin polymerization and process for producing polyolefins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KIMC

☐ 18. Document ID: US 5478890 A

L7: Entry 18 of 74

File: USPT

Dec 26, 1995

US-PAT-NO: 5478890

DOCUMENT-IDENTIFIER: US 5478890 A

TITLE: Olefin polymer composition

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KIMC

☐ 19. Document ID: US 5476903 A

L7: Entry 19 of 74

File: USPT

Dec 19, 1995

US-PAT-NO: 5476903

DOCUMENT-IDENTIFIER: US 5476903 A

TITLE: Prepolymerized catalyst, catalyst for olefin polymerization, polymerization process of olefin, and olefin polymer

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KIMC

☐ 20. Document ID: US 5468703 A

L7: Entry 20 of 74

File: USPT

Nov 21, 1995

US-PAT-NO: 5468703

DOCUMENT-IDENTIFIER: US 5468703 A

TITLE: Titanium catalyst component for ethylene polymerization, ethylene polymerization catalyst, and process for ethylene polymerization using the same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 21. Document ID: US 5438110 A

L7: Entry 21 of 74

File: USPT

Aug 1, 1995

US-PAT-NO: 5438110

DOCUMENT-IDENTIFIER: US 5438110 A

TITLE: Process for polymerizing olefins and polymerization catalyst therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 22. Document ID: US 5438100 A

L7: Entry 22 of 74

File: USPT

Aug 1, 1995

US-PAT-NO: 5438100

DOCUMENT-IDENTIFIER: US 5438100 A

TITLE: Olefin polymer composition

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 23. Document ID: US 5332789 A

L7: Entry 23 of 74

File: USPT

Jul 26, 1994

US-PAT-NO: 5332789

DOCUMENT-IDENTIFIER: US 5332789 A

TITLE: Polypropylene block copolymer resin and compositions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 24. Document ID: US 5330949 A

L7: Entry 24 of 74

File: USPT

Jul 19, 1994

US-PAT-NO: 5330949

DOCUMENT-IDENTIFIER: US 5330949 A

TITLE: Method for producing polyolefin

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 25. Document ID: US 5324805 A

L7: Entry 25 of 74

File: USPT

Jun 28, 1994

US-PAT-NO: 5324805

DOCUMENT-IDENTIFIER: US 5324805 A

TITLE: Ethylene/pentene-1 copolymer and ethylene/pentene-1
copolymer composition

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 26. Document ID: US 5262228 A

L7: Entry 26 of 74

File: USPT

Nov 16, 1993

US-PAT-NO: 5262228

DOCUMENT-IDENTIFIER: US 5262228 A

TITLE: Ethylene/pentene-1 copolymer compositions and their use

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 27. Document ID: US 5260382 A

L7: Entry 27 of 74

File: USPT

Nov 9, 1993

US-PAT-NO: 5260382

DOCUMENT-IDENTIFIER: US 5260382 A

TITLE: Ethylene/pentene-1 copolymer compositions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 28. Document ID: US 5247032 A

L7: Entry 28 of 74

File: USPT

Sep 21, 1993

US-PAT-NO: 5247032

DOCUMENT-IDENTIFIER: US 5247032 A

TITLE: Solid catalyst components for olefin polymerization and processes for the polymerization of olefin using same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 29. Document ID: US 5192731 A

L7: Entry 29 of 74

File: USPT

Mar 9, 1993

US-PAT-NO: 5192731

DOCUMENT-IDENTIFIER: US 5192731 A

TITLE: Titanium catalyst components, process for preparing same, catalysts containing same for preparing ethylene polymers and process for preparing said ethylene polymers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 30. Document ID: US 5162465 A

L7: Entry 30 of 74

File: USPT

Nov 10, 1992

US-PAT-NO: 5162465

DOCUMENT-IDENTIFIER: US 5162465 A

TITLE: Preparation of homopolymers and copolymers of propene using a Ziegler-Natta catalyst system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 31. Document ID: US 5155078 A

L7: Entry 31 of 74

File: USPT

Oct 13, 1992

US-PAT-NO: 5155078

DOCUMENT-IDENTIFIER: US 5155078 A

TITLE: Titanium catalyst components, process for preparing same, catalysts containing same for preparing ethylene polymers and

process for preparing said ethylene polymers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KVMC

☐ 32. Document ID: US 5153158 A

L7: Entry 32 of 74

File: USPT

Oct 6, 1992

US-PAT-NO: 5153158

DOCUMENT-IDENTIFIER: US 5153158 A

TITLE: Solid catalyst components for olefin polymerization and processes for the polymerization of olefin using same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KVMC

☐ 33. Document ID: US 5104837 A

L7: Entry 33 of 74

File: USPT

Apr 14, 1992

US-PAT-NO: 5104837

DOCUMENT-IDENTIFIER: US 5104837 A

TITLE: Catalyst and polymerization of olefins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KVMC

☐ 34. Document ID: US 5091353 A

L7: Entry 34 of 74

File: USPT

Feb 25, 1992

US-PAT-NO: 5091353

DOCUMENT-IDENTIFIER: US 5091353 A

TITLE: Process for producing ethylene copolymer

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KVMC

☐ 35. Document ID: US 5061667 A

L7: Entry 35 of 74

File: USPT

Oct 29, 1991

US-PAT-NO: 5061667

DOCUMENT-IDENTIFIER: US 5061667 A

TITLE: Catalytic component for olefin polymerization

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KIMC

☐ 36. Document ID: US 5028671 A

L7: Entry 36 of 74

File: USPT

Jul 2, 1991

US-PAT-NO: 5028671

DOCUMENT-IDENTIFIER: US 5028671 A

TITLE: Process for polymerization of olefins and polymerization catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KIMC

☐ 37. Document ID: US 5006620 A

L7: Entry 37 of 74

File: USPT

Apr 9, 1991

US-PAT-NO: 5006620

DOCUMENT-IDENTIFIER: US 5006620 A

TITLE: Preparation of homopolymers and copolymers of propene by means of a Ziegler-Natta catalyst system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KIMC

☐ 38. Document ID: US 4990479 A

L7: Entry 38 of 74

File: USPT

Feb 5, 1991

US-PAT-NO: 4990479

DOCUMENT-IDENTIFIER: US 4990479 A

TITLE: Process for polymerizing olefins and polymerization catalyst therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KIMC

☐ 39. Document ID: US 4960743 A

L7: Entry 39 of 74

File: USPT

Oct 2, 1990

US-PAT-NO: 4960743

DOCUMENT-IDENTIFIER: US 4960743 A

TITLE: Method for production of catalyst carrier for polymerization
of olefin

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWMC
Draw Desc	Image									

☐ 40. Document ID: US 4952649 A

L7: Entry 40 of 74

File: USPT

Aug 28, 1990

US-PAT-NO: 4952649

DOCUMENT-IDENTIFIER: US 4952649 A

TITLE: Process for producing olefin polymers or copolymers and
catalyst components used therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWMC
Draw Desc	Image									

☐ 41. Document ID: US 4950630 A

L7: Entry 41 of 74

File: USPT

Aug 21, 1990

US-PAT-NO: 4950630

DOCUMENT-IDENTIFIER: US 4950630 A

TITLE: Method for production of catalyst component for olefin
polymerization

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWMC
Draw Desc	Image									

☐ 42. Document ID: US 4942148 A

L7: Entry 42 of 74

File: USPT

Jul 17, 1990

US-PAT-NO: 4942148

DOCUMENT-IDENTIFIER: US 4942148 A

TITLE: Catalyst component for olefin polymerization

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWMC
Draw Desc	Image									

☐ 43. Document ID: US 4883848 A

L7: Entry 43 of 74

File: USPT

Nov 28, 1989

US-PAT-NO: 4883848

DOCUMENT-IDENTIFIER: US 4883848 A

TITLE: Method for producing an olefin polymer

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw. Desc	Image								

KWC

☐ 44. Document ID: US 4857613 A

L7: Entry 44 of 74

File: USPT

Aug 15, 1989

US-PAT-NO: 4857613

DOCUMENT-IDENTIFIER: US 4857613 A

TITLE: Preparation of homopolymers and copolymers of propene using a Ziegler-Natta catalyst system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw. Desc	Image								

KWC

☐ 45. Document ID: US 4843132 A

L7: Entry 45 of 74

File: USPT

Jun 27, 1989

US-PAT-NO: 4843132

DOCUMENT-IDENTIFIER: US 4843132 A

TITLE: Preparation of homo- and copolymers of propene using a Ziegler-Natta catalyst system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw. Desc	Image								

KWC

☐ 46. Document ID: US 4820672 A

L7: Entry 46 of 74

File: USPT

Apr 11, 1989

US-PAT-NO: 4820672

DOCUMENT-IDENTIFIER: US 4820672 A

TITLE: Hydrocarbon soluble and insoluble organo magnesium chloride complexes, processes and uses

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 47. Document ID: US 4814313 A

L7: Entry 47 of 74

File: USPT

Mar 21, 1989

US-PAT-NO: 4814313

DOCUMENT-IDENTIFIER: US 4814313 A

TITLE: Method of production of catalyst carrier for polymerization
of olefin

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 48. Document ID: US 4814312 A

L7: Entry 48 of 74

File: USPT

Mar 21, 1989

US-PAT-NO: 4814312

DOCUMENT-IDENTIFIER: US 4814312 A

TITLE: Method for production of catalyst component for olefin
polymerization

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 49. Document ID: US 4814311 A

L7: Entry 49 of 74

File: USPT

Mar 21, 1989

US-PAT-NO: 4814311

DOCUMENT-IDENTIFIER: US 4814311 A

TITLE: Method for production of catalyst component for olefin
polymerization (P-1292)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 50. Document ID: US 4798866 A

L7: Entry 50 of 74

File: USPT

Jan 17, 1989

US-PAT-NO: 4798866

DOCUMENT-IDENTIFIER: US 4798866 A

TITLE: Branched alpha-olefin polymer composition and process for
its production

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 51. Document ID: US 4742139 A

L7: Entry 51 of 74

File: USPT

May 3, 1988

US-PAT-NO: 4742139

DOCUMENT-IDENTIFIER: US 4742139 A

TITLE: Process for producing olefin polymers or copolymers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 52. Document ID: US 4693990 A

L7: Entry 52 of 74

File: USPT

Sep 15, 1987

US-PAT-NO: 4693990

DOCUMENT-IDENTIFIER: US 4693990 A

TITLE: Production of catalyst component for olefin polymerization

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 53. Document ID: US 4673719 A

L7: Entry 53 of 74

File: USPT

Jun 16, 1987

US-PAT-NO: 4673719

DOCUMENT-IDENTIFIER: US 4673719 A

TITLE: Process for producing olefin polymers and catalyst
composition therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 54. Document ID: US 4617360 A

L7: Entry 54 of 74

File: USPT

Oct 14, 1986

US-PAT-NO: 4617360

DOCUMENT-IDENTIFIER: US 4617360 A

TITLE: Process for the polymerization of .alpha.-olefins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 55. Document ID: US 4477587 A

L7: Entry 55 of 74

File: USPT

Oct 16, 1984

US-PAT-NO: 4477587

DOCUMENT-IDENTIFIER: US 4477587 A

TITLE: Supported catalyst for polymerization of olefins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 56. Document ID: US 4464518 A

L7: Entry 56 of 74

File: USPT

Aug 7, 1984

US-PAT-NO: 4464518

DOCUMENT-IDENTIFIER: US 4464518 A

TITLE: Process for the polymerization or copolymerization of ethylene

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 57. Document ID: US 4402861 A

L7: Entry 57 of 74

File: USPT

Sep 6, 1983

US-PAT-NO: 4402861

DOCUMENT-IDENTIFIER: US 4402861 A

TITLE: Polymerization catalyst and method

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 58. Document ID: US 4401589 A

L7: Entry 58 of 74

File: USPT

Aug 30, 1983

US-PAT-NO: 4401589

DOCUMENT-IDENTIFIER: US 4401589 A

TITLE: Process for producing olefin polymers or copolymers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 59. Document ID: US 4392983 A

L7: Entry 59 of 74

File: USPT

Jul 12, 1983

US-PAT-NO: 4392983

DOCUMENT-IDENTIFIER: US 4392983 A

TITLE: Transition metal composition, production and use

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 60. Document ID: US 4356295 A

L7: Entry 60 of 74

File: USPT

Oct 26, 1982

US-PAT-NO: 4356295

DOCUMENT-IDENTIFIER: US 4356295 A

TITLE: Process for polymerizing olefins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 61. Document ID: US RE30970 E

L7: Entry 61 of 74

File: USPT

Jun 15, 1982

US-PAT-NO: RE30970

DOCUMENT-IDENTIFIER: US RE30970 E

TITLE: Polymerization catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 62. Document ID: US 4330649 A

L7: Entry 62 of 74

File: USPT

May 18, 1982

US-PAT-NO: 4330649

DOCUMENT-IDENTIFIER: US 4330649 A

TITLE: Process for producing olefin polymers or copolymers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWIC

☐ 63. Document ID: US 4324692 A

L7: Entry 63 of 74

File: USPT

Apr 13, 1982

US-PAT-NO: 4324692

DOCUMENT-IDENTIFIER: US 4324692 A

TITLE: Polymerization catalyst and process

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWIC

☐ 64. Document ID: US 4315874 A

L7: Entry 64 of 74

File: USPT

Feb 16, 1982

US-PAT-NO: 4315874

DOCUMENT-IDENTIFIER: US 4315874 A

TITLE: Process for the production of spherical carrier particles for olefin polymerization catalysts

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWIC

☐ 65. Document ID: US 4311817 A

L7: Entry 65 of 74

File: USPT

Jan 19, 1982

US-PAT-NO: 4311817

DOCUMENT-IDENTIFIER: US 4311817 A

TITLE: Process for polymerizing olefins and catalyst therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWIC

☐ 66. Document ID: US 4294948 A

L7: Entry 66 of 74

File: USPT

Oct 13, 1981

US-PAT-NO: 4294948

DOCUMENT-IDENTIFIER: US 4294948 A

TITLE: Process for preparing olefin polymers or copolymers, and catalyst for use in said process

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 67. Document ID: US 4290915 A

L7: Entry 67 of 74

File: USPT

Sep 22, 1981

US-PAT-NO: 4290915

DOCUMENT-IDENTIFIER: US 4290915 A

TITLE: Solid titanium catalyst composition for production of an olefin polymer or copolymer

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 68. Document ID: US 4256865 A

L7: Entry 68 of 74

File: USPT

Mar 17, 1981

US-PAT-NO: 4256865

DOCUMENT-IDENTIFIER: US 4256865 A

TITLE: Polymerization catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 69. Document ID: US 4255544 A

L7: Entry 69 of 74

File: USPT

Mar 10, 1981

US-PAT-NO: 4255544

DOCUMENT-IDENTIFIER: US 4255544 A

TITLE: Process for polymerization of ethylene

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 70. Document ID: US 4097409 A

L7: Entry 70 of 74

File: USPT

Jun 27, 1978

US-PAT-NO: 4097409

DOCUMENT-IDENTIFIER: US 4097409 A

TITLE: Preparation of titanium containing catalyst on magnesium support material

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 71. Document ID: US 4087380 A

L7: Entry 71 of 74

File: USPT

May 2, 1978

US-PAT-NO: 4087380

DOCUMENT-IDENTIFIER: US 4087380 A

TITLE: Polymerization catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 72. Document ID: US 4082692 A

L7: Entry 72 of 74

File: USPT

Apr 4, 1978

US-PAT-NO: 4082692

DOCUMENT-IDENTIFIER: US 4082692 A

TITLE: Polymerization catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 73. Document ID: JP 61037802 A

L7: Entry 73 of 74

File: JPAB

Feb 22, 1986

PUB-NO: JP361037802A

DOCUMENT-IDENTIFIER: JP 61037802 A

TITLE: CATALYST COMPONENT FOR OLEFIN POLYMERIZATION

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 74. Document ID: JP 3296632 B2 EP 591922 A1 CZ 9302079 A3 CA 2107634 A JP 06220120 A CN 1085569 A US 5468703 A CZ 280872 B6 RO 110505 B1 EP 591922 B1 US 5623033 A DE 69309386 E TW 302375 A CN 1119651 A RU 2098428 C1 SG 49178 A1 CA 2107634 C KR 138631 B1

L7: Entry 74 of 74

File: DWPI

Jul 2, 2002

DERWENT-ACC-NO: 1994-120084

DERWENT-WEEK: 200246

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TITLE: High activity titanium@ catalyst component for ethylene polymerisation - comprises solid magnesium aluminium complex and a tetra:valent titanium cpd.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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